

Оксиуроз лошадей

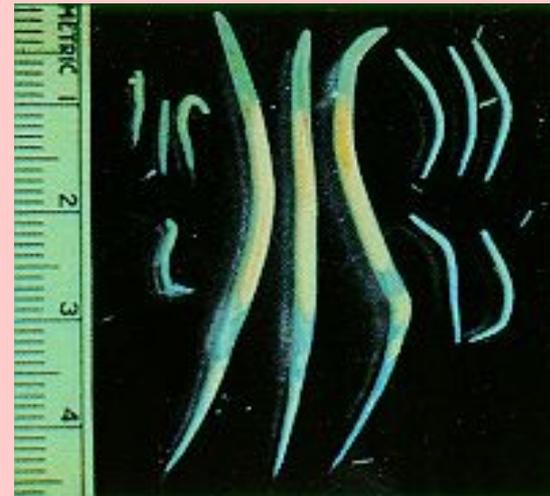
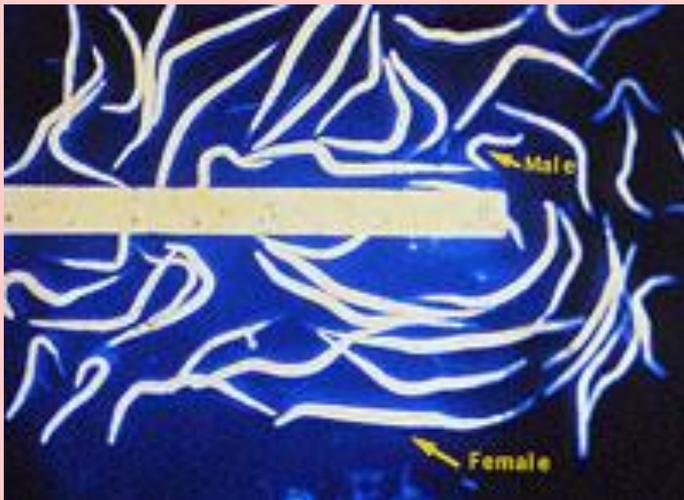


Стронгилятозы желудочно-кишечного канала лошадей

Оксиуроз лошадей

Воз.: *Oxyuris equi* (п/отр. *Oxyurata*)

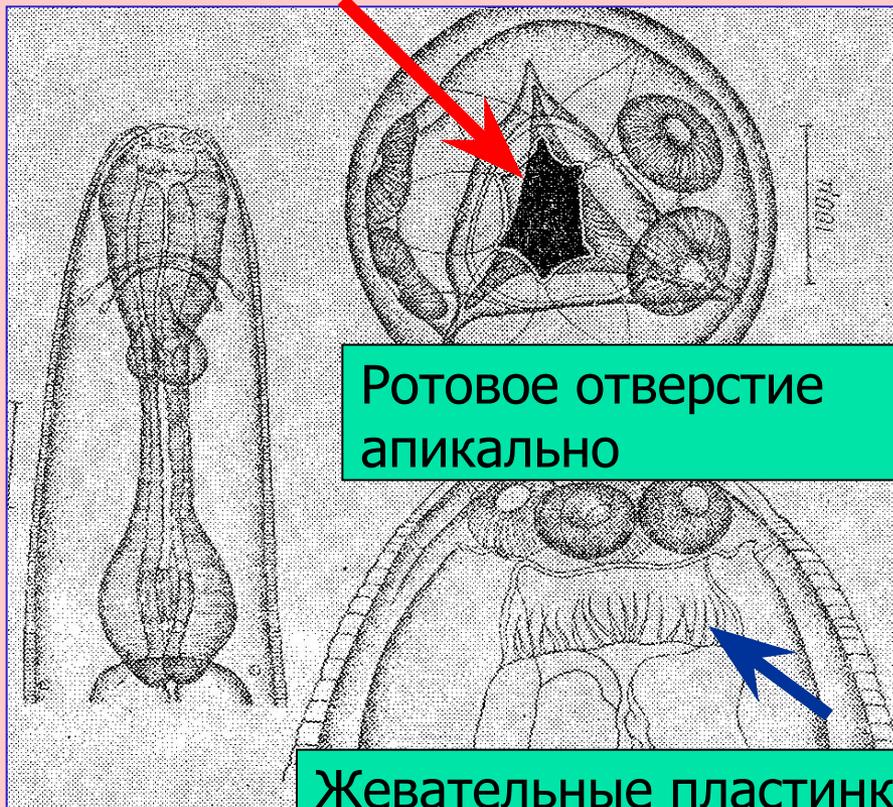
- Лок.: ободочная и слепая кишка, во время откладки яиц – конечная часть **прямой** кишки



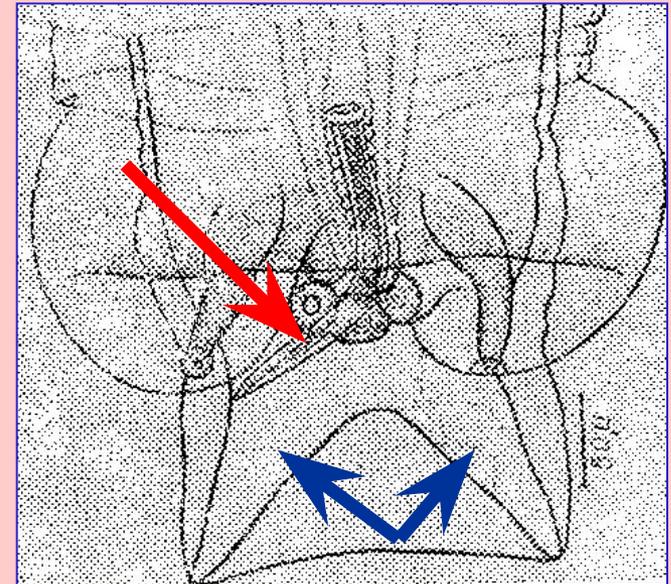
Размеры: **самки** - 150-180 мм, **самцы** – 6-15 мм

Морфология *Oxyuris equi*

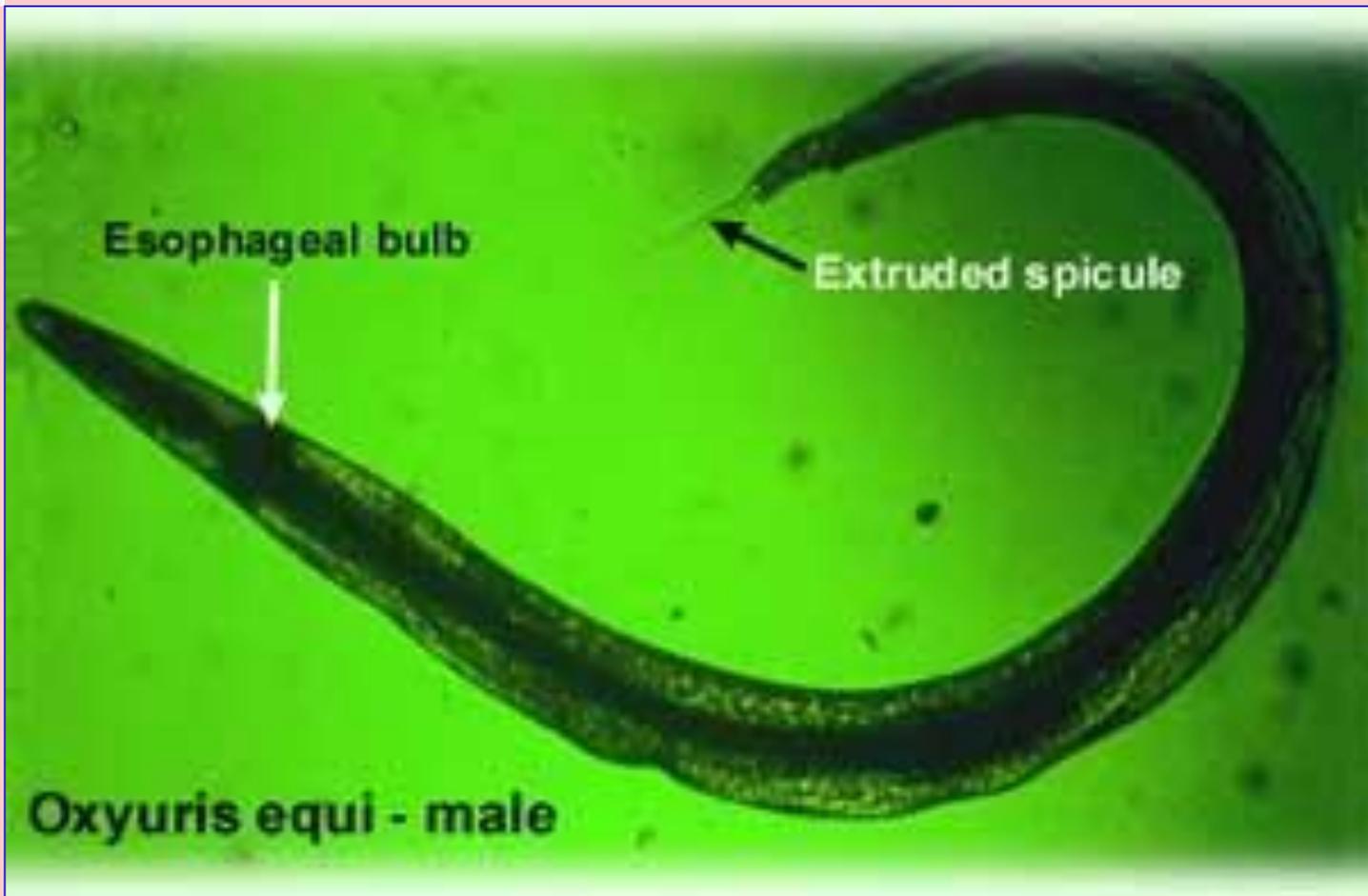
Головная часть гельминта



Хвостовая часть самца

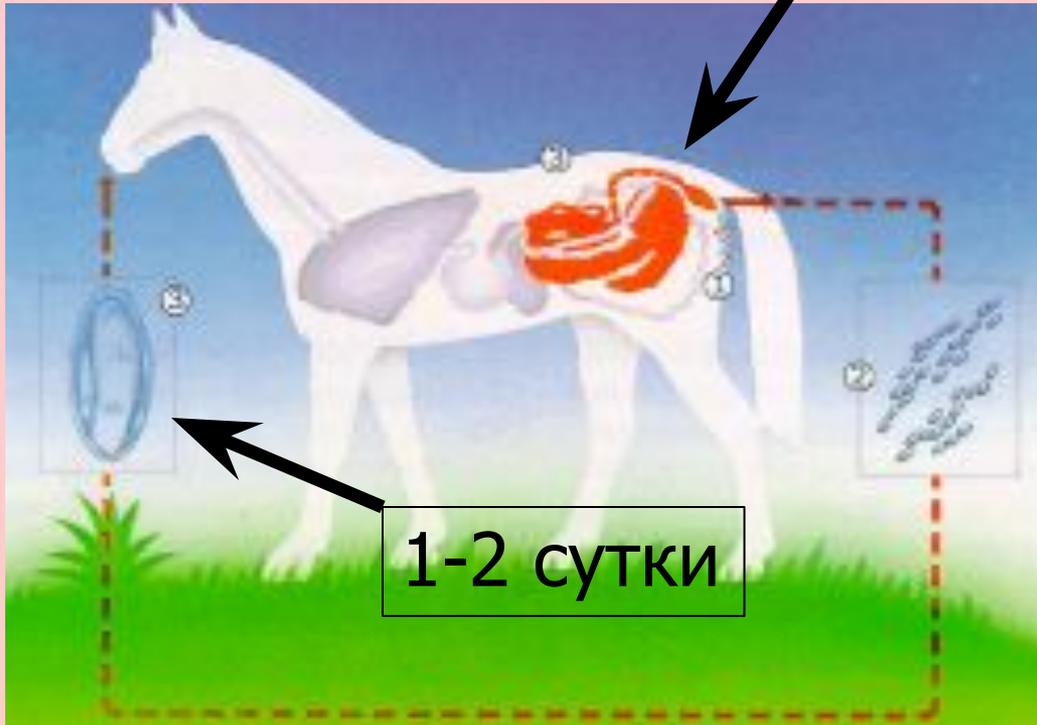


Морфология *Oxyuris equi*



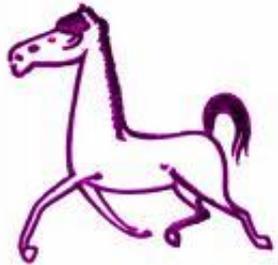
Цикл развития *Oxyuris equi*

1,5 месяца



1-2 сутки

Эпизоотологические данные



- Болеют **однокопытные**
- Чаще болеют **молодняк до года и старые лошади**
- Заражение **оксиурозом** часто происходит при **поедании корма с пола**
- Чаще заболевание регистрируется в **стойловый период**

Клинические признаки

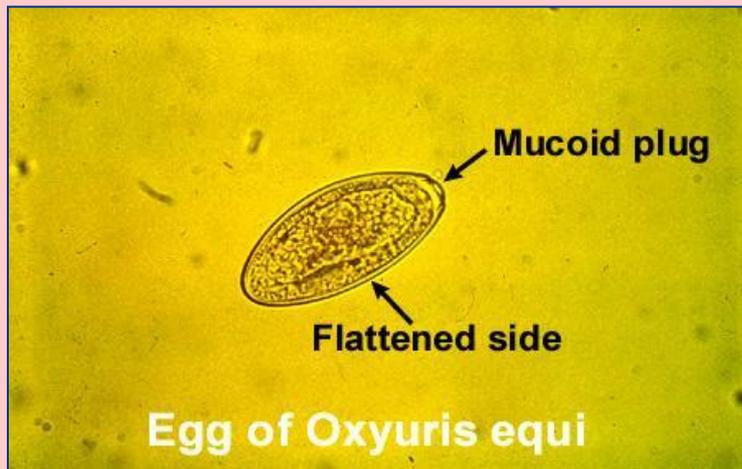
- Расстройство пищеварения
- Зачесы прикорневой части хвоста
- Проктит



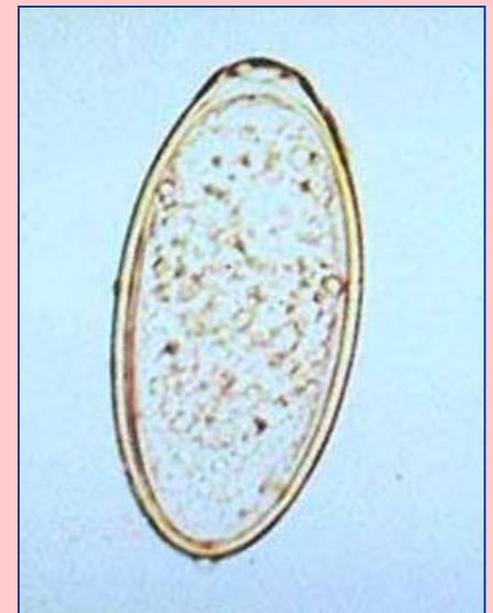


Лабораторная диагностика

- Метод Фюллеборна
- Соскоб с перианальных складок



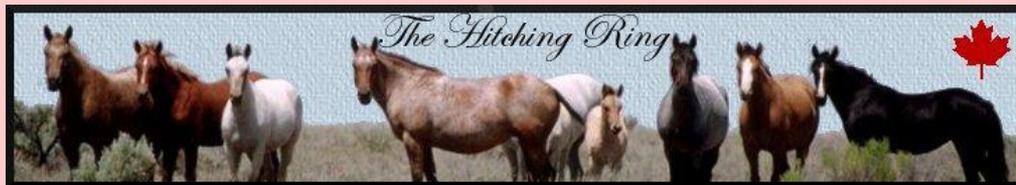
Яйцо
оксиуридного типа



Стронгилятозы желудочно-кишечного канала лошадей

п/отр. **Strongylata**

- Деляфондиоз (*Delafondia vulgaris*)
- Альфортиоз (*Alfortia edentatus*)
- Стронгилез (*Strongylus equinus*)
- Трихонематоз (*Trichonema* spp.)



Стронгилятозы лошадей

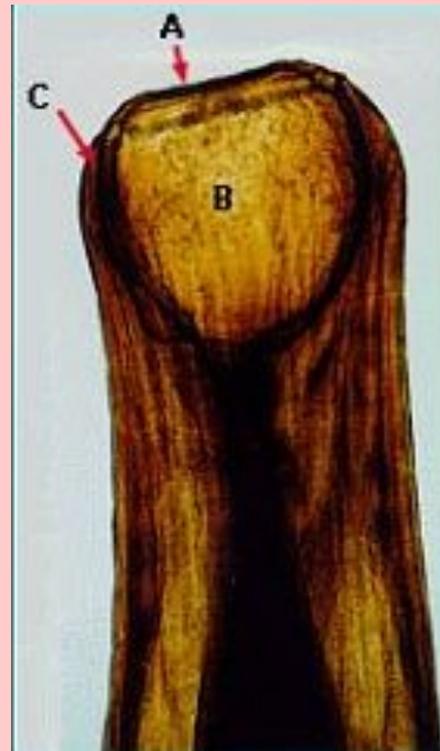


- Половозрелая стадия – просвет толстого отдела кишечника
- Личиночные стадии:
 - *Delafondia vulgaris* – в сосудах брыжейки
 - *Alfortia edentatus* – под париетальным листком брюшины
 - *Strongylus equinus* – в поджелудочной железе
 - *Trichonema* spp. – в толще слизистой оболочки слепой и ободочной кишок

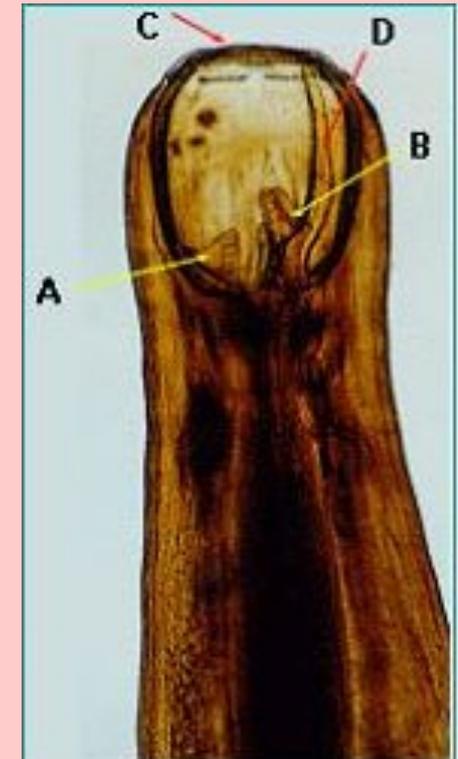
Морфология (головные части гельминтов)



Strongylus vulgaris
(12 - 25mm)
- Com 2 dentes

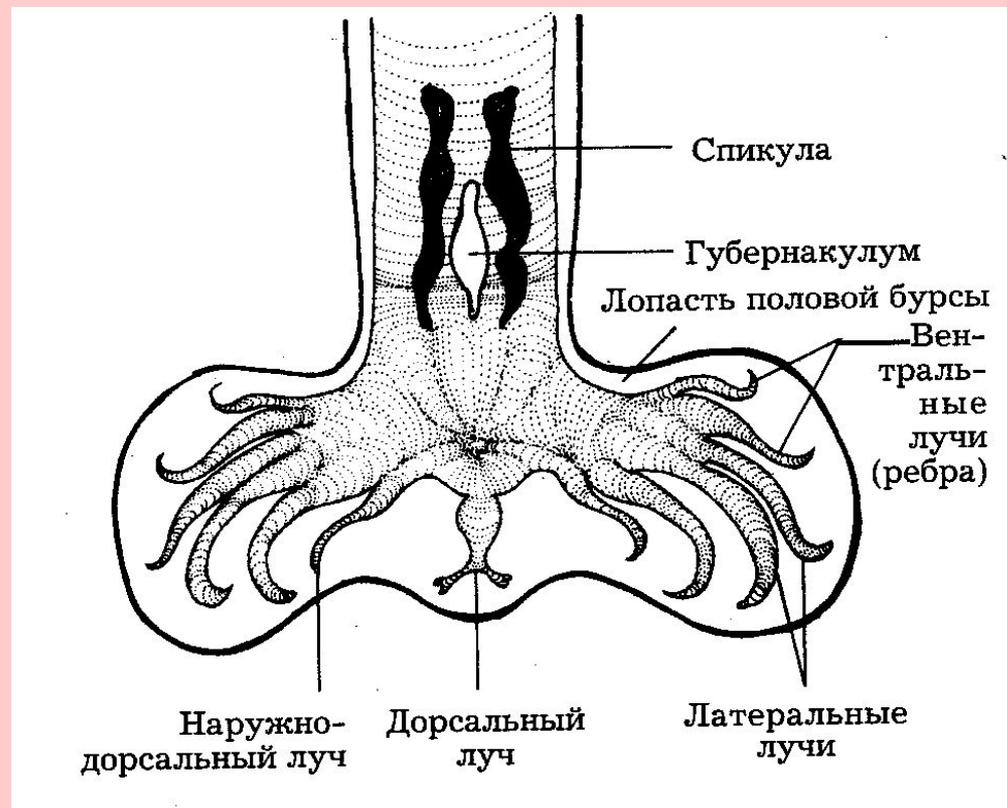


Strongylus edentatus
(23 - 44mm)
- Sem dentes



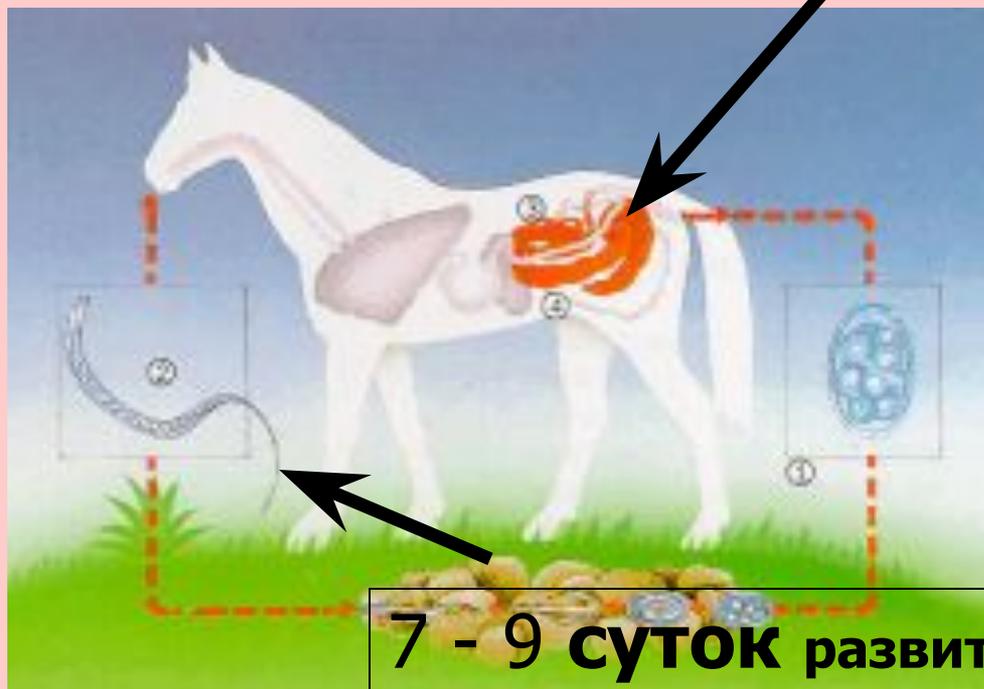
Strongylus equinus
(26 - 55mm)
- Com 3 dentes
(um com porta bifida)

Морфология (хвостовая часть самца – половая бурса)



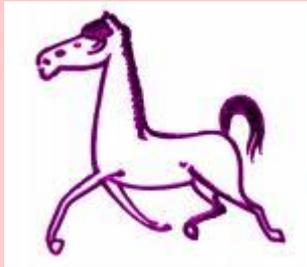
Цикл развития стронгилят ЖКК лошадей

2 месяца (до половозрелой стадии в просвете кишечника)



7 - 9 СУТОК развитие идет во внешней среде до инвазионной стадии

Эпизоотологические данные



- Болеют **однокопытные**
- Источник возбудителя – **больные животные**
- Заражение животных происходит в **пастбищный период**
- С возрастом инвазия **возрастает**

Клинические признаки

- Расстройство пищеварения
- Колики
- Исхудание





Лабораторная диагностика

· Гельминтоовоскопия

Метод Фюллеборна

Обнаруживают яйца стронгилидного типа



· Гельминтолярвоскопия

Методы: Бермана

«Звездочка»



Рекомендуемые дозы антигельминтиков для лошадей

Антигельминтик	Доза, мг/кг	Параскариды	Оксиуры	Делафонди	Альфортин	Стронгилы	Циатостомы	Телязии	Парафилярии	Аноплоцефалы	Габронемы	Диктиокаулы	Стронгилоиды	Индекс безопасности
Пиперазин	200	5	3	4	4	4	5							3
Пирантел	19	5	5	5	5	5	5						3	20
Мебендазол	6	5	5	5	5	5	5					5	5	40
Албендазол	10	5	5	5	5	5	5			3	5	5		
Фенбендазол	7,5–10	5	5	5 ¹	5 ¹	5 ¹	5			4	5	5 ¹		100
Оксфендазол	10	5	5	5	5	5	5				5			60
Фебантел	5	5	5	5	5	5	5					4 ²		40
Ивермектин	0,2	5	5	5	5	5	5	5	3		5	5		10
Моксидектин	0,4	5	5	5	5	5	5	5	3		5	5		5
Фенасал	300									5				

Примечание: 5 – эффективность свыше 98 %; 4 – эффективность 90–98%; 3 – эффективность 80–89 %;
 5¹ – фенбендазол применяют в дозе 10 мг/кг ежедневно в течение 5 сут;
 4² – фебантел применяют в дозе 10 мг/кг двукратно.

Лечение

- Пирантел паста



Лечение

- Алезан паста (ивермектин+празиквантел)



Лечение

■ Эквалан паста (ивермектин)

INDICATIONS: Consult your veterinarian for assistance in the diagnosis, treatment, and control of parasitism. EQVALAN® (ivermectin) Paste provides effective treatment and control of the following parasites in horses. Large Strongid® (adults) - Strongid® (adults) also kills bots in blood vessels, S. edentatus (also blood stage), S. equorum, Trichostrongylus spp. including T. axei/axei and T. axei/axei and Cyathostomum (adults/eggs); Small Strongid® (adults), including those resistant to some benzimidazole class compounds - Cyathostom spp. including C. convexus, C. labialis and C. labialis, Cyathostomum spp. including C. colonicum and C. perforatum, Glycyphorus spp. including G. equorum, C. apertirostris, C. ranscheri and C. ranscheri, Glycyphorus spp., Cyathostomum spp. including C. colonicum, C. equi, C. impatiens and C. ranscheri, and Ascarididae postlarvae; Small Strongid® - Fourth-stage larvae, Pinworms (adults and fourth-stage larvae) - Oxyuris equi, Ascarids (adults and third- and fourth-stage larvae) - Ascaris equorum, Pinworms (adults) - Trichostrongylus axei, Large Adult Bots (adults) - Simulium nigroparvum (adults) (oral and anal paste stage) - Gastrophilus spp. including G. intestinalis and G. nasalis; Large larvae (adults and fourth-stage larvae) - Oxychonus eremicus, Intestinal Threadworms (adults) - Strongylus vulgaris; Small Adult Bots (adults and fourth-stage larvae) - Simulium nigroparvum (adults and fourth-stage larvae); Botflies caused by Tabanids and Diptera spp., cutaneous third-stage larvae; Dermatitis caused by yeast, Tracheomonas, Chorioptes sp.

INDICATIONS: Consult your veterinarian for assistance in the diagnosis, treatment, and control of parasitism. EQVALAN® (ivermectin) Paste provides effective treatment and control of the following parasites in horses. Large Strongid® (adults) - Strongid® (adults) also kills bots in blood vessels, S. edentatus (also blood stage), S. equorum, Trichostrongylus spp. including T. axei/axei and T. axei/axei and Cyathostomum (adults/eggs); Small Strongid® (adults), including those resistant to some benzimidazole class compounds - Cyathostom spp. including C. convexus, C. labialis and C. labialis, Cyathostomum spp. including C. colonicum and C. perforatum, Glycyphorus spp. including G. equorum, C. apertirostris, C. ranscheri and C. ranscheri, Glycyphorus spp., Cyathostomum spp. including C. colonicum, C. equi, C. impatiens and C. ranscheri, and Ascarididae postlarvae; Small Strongid® - Fourth-stage larvae, Pinworms (adults and fourth-stage larvae) - Oxyuris equi, Ascarids (adults and third- and fourth-stage larvae) - Ascaris equorum, Pinworms (adults) - Trichostrongylus axei, Large Adult Bots (adults) - Simulium nigroparvum (adults) (oral and anal paste stage) - Gastrophilus spp. including G. intestinalis and G. nasalis; Large larvae (adults and fourth-stage larvae) - Oxychonus eremicus, Intestinal Threadworms (adults) - Strongylus vulgaris; Small Adult Bots (adults and fourth-stage larvae) - Simulium nigroparvum (adults and fourth-stage larvae); Botflies caused by Tabanids and Diptera spp., cutaneous third-stage larvae; Dermatitis caused by yeast, Tracheomonas, Chorioptes sp.

DOSAGE AND ADMINISTRATION: This syringe contains sufficient paste to treat one (1) 1250 lb horse at the recommended dose rate of 0.1 mg ivermectin per lb (200 mcg/kg) body weight. Each weight marking on the syringe plunger delivers enough paste to treat 250 lb body weight. (1) While holding plunger, turn the marked ring on the plunger 1/4 turn to the left and click it in the side marked "R" on the syringe. (2) Lock the ring in place by making a 1/4 turn to the right. (3) Also turn the horse's mouth carefully up. (4) Remove the cover from the tip of the syringe. (5) Insert the plunger tip into the horse's mouth at the space between the teeth. (6) Depress the plunger as far as it will go, depositing paste on the back of the tongue. (7) Immediately rub the horse's head for 15-20 seconds after dosing.

PARASITIC CONTROL PROGRAM: All horses should be included in a regular parasite control program with particular attention being paid to mares, foals and yearlings. Foals should be treated initially at 1 to 3 weeks of age, and routine treatment repeated as appropriate. Consult your veterinarian for a control program to meet your specific needs. EQVALAN (ivermectin) Paste effectively controls gastro-intestinal nematodes and bots of horses. Regular treatment will reduce the chances of verminous arteritis caused by Strongylus vulgaris.

PRODUCT ADVANTAGES: Broad-spectrum Control - EQVALAN Paste kills important internal parasites, including bots and the animal stages of S. edentatus with a single dose. EQVALAN Paste is a potent antiparasitic agent that is neither a benzimidazole nor an organophosphate.

ANIMAL SAFETY - EQVALAN (ivermectin) Paste may be used in horses of all ages, including mares at any stage of pregnancy. Stallions may be treated without adversely affecting their fertility.

STORAGE INFORMATION: Store at 68° F - 77° F (20-25° C). Excursions between 59° F - 86° F (15-30° C) are permitted.

WARNING: Do not use in horses intended for human consumption. Not for use in humans. Keep this and all drugs out of reach of children. Handle with care and avoid skin contact. Wash hands after use. Avoid contact with eyes. The Material Safety Data Sheet (MSDS) contains more detailed occupational safety information. To report adverse reactions in users, to obtain more information, or to obtain a MSDS, contact Meriel at 1-888-627-4253.

PRECAUTIONS: EQVALAN® (ivermectin) Paste has been formulated specifically for use in horses only. This product should not be used in other animal species as severe adverse reactions, including abortion in dogs, may result. Environmental Safety: Ivermectin and ivermectin residues may adversely affect aquatic organisms. Do not contaminate ground or surface water. Dispose of this syringe in an approved landfill or by incineration.

INFORMATION FOR HORSE OWNERS: Swelling and itching reactions after treatment with EQVALAN (ivermectin) Paste have occurred in horses carrying heavy infestations of neck botflies (Oxycerter spp.) or mosquitoes. These reactions have been likely the result of microfilariae dying in large numbers. Symptomatic treatment may be advisable. Consult your veterinarian should any such reactions occur. Healing of summer sores (severe cutaneous tissue changes) may require other appropriate therapy in conjunction with treatment with EQVALAN Paste. Identification and treatment for prevention, should also be considered. Consult your veterinarian if the condition does not improve.

Manufactured by Meriel Santé Animal USA, Inc., Dublin, CA 94568, USA.
 Re-authorized for Meriel Limited, Operational Headquarters, 3219 Saddle Hill, Dublin, CA 94568-4045, U.S.A.

EQVALAN® (ivermectin) Paste 1.87%

Removes worms and bots with a single dose. Contents will treat up to 1250 lb body weight For Oral Use in Horses Only

NADA 134-314, Approved by the FDA

Anthelmintic and Boticide
Net Wt 0.21 oz (6.08 g)

Product 25874
 U.S. Pat. 4,199,569
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Лечение

- **Еквимек паста (ивермектин)**



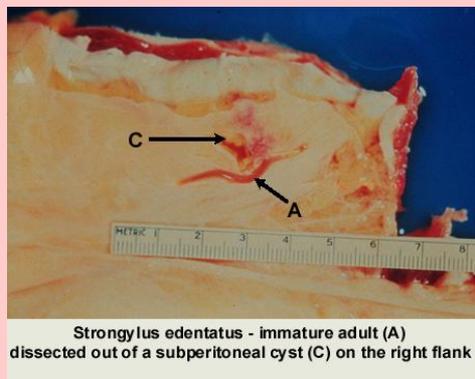
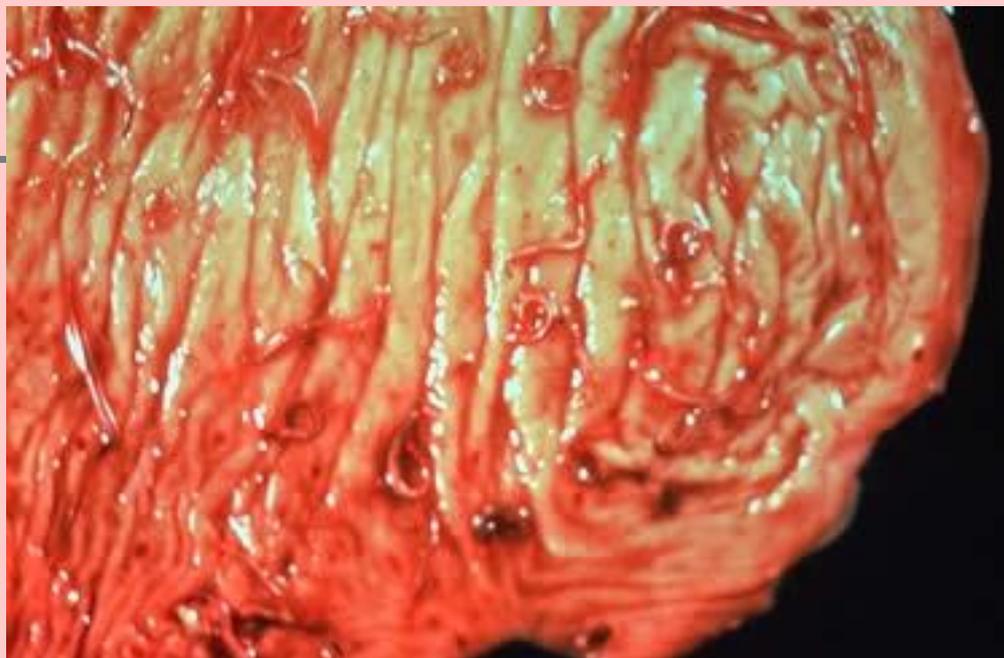
Патологоанатомические изменения



1

2

Delafondia vulgaris (1)
аневризма, (2) adult



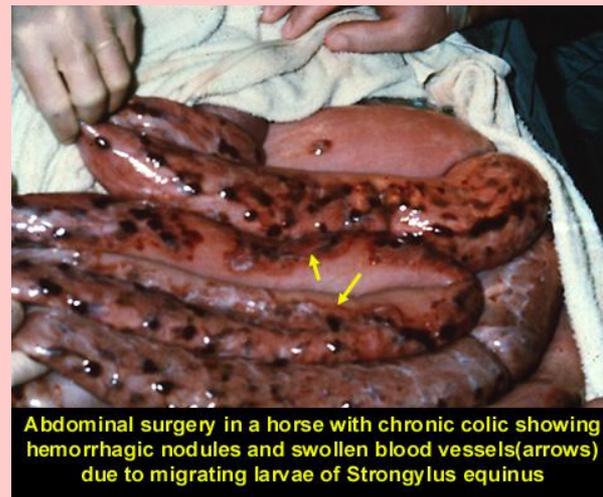
3

4



Strongylus edentatus
(4) adult

5



Abdominal surgery in a horse with chronic colic showing hemorrhagic nodules and swollen blood vessels (arrows) due to migrating larvae of Strongylus equinus

Патологоанатомические изменения при трихонематозах



Личинки трихонем в толще кишечной стенки



Половозрелые трихонемы в кишечнике